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PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0851-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 3994994-131915

First Inventor Ting He

Title Substrates with Small Particle...

Express Mail Label No. EL749133655US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. Applicant claims small entity status.
See 37 CFR 1.27.
3. Specification [Total Pages 21]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings *(if filed)*
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. Drawing(s) (35 U.S.C. 113) [Total Sheets 5]
5. Oath or Declaration [Total Pages]
- a. Newly executed (original or copy)
b. Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)

i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.83(d)(2) and 1.33(b).
6. Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. paper
 - c. Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. Assignment Papers (cover sheet & document(s))
10. 37 CFR 3.73(b) Statement Power of Attorney
(when there is an assignee)
11. English Translation Document *(if applicable)*
12. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
13. Preliminary Amendment
14. Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-In-part (CIP) of prior application No.: _____

Prior application information: Examiner _____

Group Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

<input checked="" type="checkbox"/> Customer Number or Bar Code Label	<i>Insert Customer No. or Attach Bar Code Label</i>			<input type="checkbox"/> or <input type="checkbox"/> Correspondence address below
Name	Edwin M. Baranowski			
Address	Porter Wright Morris & Arthur LLP 41 South High Street			
City	Columbus	State	Ohio	Zip Code 43215
Country	USA	Telephone	614-227-2188	Fax 227-2100
Name (Print/Type)	Edwin M. Baranowski	Registration No. (Attorney/Agent)	27,482	
Signature	<i>Edwin M. Baranowski</i>			Date 24 July 01

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

09/912223

07/24/01



PORTER WRIGHT MORRIS & ARTHUR LLP
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Toll Free: 800-533-2794

By Express Mail Receipt No. EL749133655US on July 24, 2001

Box Patent Application
Commissioner for Patents
Washington, D.C. 20231

Re: Inventor: Ting He
Serial Number: To be assigned
Filed: July 24, 2001
Title: SUBSTRATES WITH SMALL PARTICLE SIZE METAL OXIDE WITH
NOBLE METAL CATALYST COATINGS AND THERMAL SPRAYING
METHODS FOR PRODUCING THE SAME

Dear Sir:

For filing, we are enclosing the following in the above-referenced application for United States Letters Patent:

1. Utility Patent Application Transmittal Form PTO/SB/05
2. Fee Transmittal Form PTO/SB/17, including Authorization re: Deposit Account 16-2326 (in duplicate)
3. Application for United States Letters Patent (21 pages, 23 claims); Abstract; 5 sheets of drawings (Figures 1A, 1B, 2A, 2B, 3A, 3B, 4)

The Declaration and Power of Attorney will be filed at a later date.

A Certificate of Filing by Express Mail follows on page 2 of this cover letter.

Please acknowledge receipt of the foregoing by stamping the enclosed postcard and returning it to us for our file.

Very truly yours,

Edwin M. Baranowski

Enclosures

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$ 1,474)

Complete If Known	
Application Number	
Filing Date	24 July 2001
First Named Inventor	Ting He
Examiner Name	
Group Art Unit	
Attorney Docket No.	3994994-131915

METHOD OF PAYMENT

1. The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number 16-2326

Deposit Account Name Porter Wright Morris & Arthur

 Charge Any Additional Fee Required
Under 37 CFR 1.16 and 1.17 Applicant claims small entity status.
See 37 CFR 1.27

2. Payment Enclosed:

 Check Credit card Money Order Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Small Entity

Fee Code (\$)	Fee	Fee Code (\$)	Fee Description	Fee Paid
101	710	201	355 Utility filing fee	710
108	320	208	160 Design filing fee	
107	490	207	245 Plant filing fee	
108	710	208	355 Reissue filing fee	
114	150	214	75 Provisional filing fee	

SUBTOTAL (1) (\$ 710)

2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
43	-20** = 23	x 18	= 414
4	- 3** = 1	x 80	= 80
			270 = 270

Large Entity Small Entity

Fee Code (\$)	Fee	Fee Code (\$)	Fee Description
103	18	203	9 Claims in excess of 20
102	80	202	40 Independent claims in excess of 3
104	270	204	135 Multiple dependent claim, if not paid
109	80	209	40 ** Reissue independent claims over original patent
110	18	210	9 ** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 764)

*or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)	
3. ADDITIONAL FEES	
Large Entity	Small Entity
Fee Code (\$)	Fee Code (\$)
Fee Description	Fee Paid
105 130 205 85 Surcharge - late filing fee or oath	
127 50 227 25 Surcharge - late provisional filing fee or cover sheet	
139 130 139 130 Non-English specification	
147 2,520 147 2,520 For filing a request for ex parte reexamination	
112 920* 112 920* Requesting publication of SIR prior to Examiner action	
113 1,840* 113 1,840* Requesting publication of SIR after Examiner action	
115 110 215 55 Extension for reply within first month	
116 390 216 195 Extension for reply within second month	
117 890 217 445 Extension for reply within third month	
118 1,390 218 695 Extension for reply within fourth month	
128 1,890 228 945 Extension for reply within fifth month	
119 310 219 155 Notice of Appeal	
120 310 220 155 Filing a brief in support of an appeal	
121 270 221 135 Request for oral hearing	
138 1,510 138 1,510 Petition to institute a public use proceeding	
140 110 240 55 Petition to revive - unavoidable	
141 1,240 241 620 Petition to revive - unintentional	
142 1,240 242 620 Utility issue fee (or reissue)	
143 440 243 220 Design issue fee	
144 600 244 300 Plant issue fee	
122 130 122 130 Petitions to the Commissioner	
123 50 123 50 Processing fee under 37 CFR 1.17(q)	
126 180 126 180 Submission of Information Disclosure Stmt	
581 40 581 40 Recording each patent assignment per property (times number of properties)	
146 710 246 355 Filing a submission after final rejection (37 CFR § 1.129(a))	
149 710 249 355 For each additional invention to be examined (37 CFR § 1.129(b))	
179 710 279 355 Request for Continued Examination (RCE)	
169 900 169 900 Request for expedited examination of a design application	
Other fee (specify) _____	
SUBTOTAL (3) (\$)	

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

SUBMITTED BY		Complete (if applicable)		
Name (Print/Type)	Edwin M. Baranowski	Registration No. (Attorney/Agent)	27,482	Telephone 614-227-2188
Signature	<i>Edwin M. Baranowski</i>	Date	24 July 2001	

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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Box Patent Application
Commissioner for Patents

Inventor: Ting He
Title: SUBSTRATES WITH SMALL PARTICLE SIZE METAL OXIDE WITH NOBLE METAL
CATALYST COATINGS AND THERMAL SPRAYING METHODS FOR PRODUCING THE
SAME

July 24, 2001

Page 2

CERTIFICATE OF FILING BY EXPRESS MAIL

I hereby certify that this Application United States Letters Patent comprising:

1. Utility Patent Application Transmittal, PTO/SB/05
2. Fee Transmittal, PTO/SB/17, including Authorization re: Deposit Account 16-2326 (in duplicate)
3. Application for United States Letters Patent (21 pages, 23 claims); Abstract; 5 sheets of drawings (Figures 1A, 1B, 2A, 2B, 3A, 3B, 4)

accompanied by an itemized postcard receipt, is being deposited with the United States Postal Service by Express Mail Receipt No. EL749133655US in an envelope addressed to: Box Patent Application, Commissioner for Patents, Washington, D.C. 20231 on July 24, 2001.


Edwin M. Baranowski
Edwin M. Baranowski